WORK PLAN AND METHODOLOGY

1) Review of Literature related to Phytochemical and Pharmacological profile of *Pongamia pinnata* (L.) Pierre family: Fabaceae

2) Collection and Authentication of seed and leaf of *Pongamia pinnata* (L.) Pierre

3) Pharmacognostical and physicochemical studies

    a) Macroscopical evaluation

    b) Microscopical evaluation

    c) Analytical parameters
        - Ash value
        - Extractive value.
        - Loss on Drying

4) Preparation of various extracts (Petroleum ether, Chloroform, Methanolic, Hydroalcoholic and Aqueous extract) and study of phytochemical investigation and pharmacological activity of the extracts

5) Fractionation of the bioactive extracts

6) Isolation & characterization of active chemical constituent from bioactive extracts

    a. UV Spectroscopy

    b. FT- IR Spectrum

    c. TLC and HPTLC

    d. Mass Spectroscopy

    e. NMR Spectroscopy

    f. Hyphenated Technique

7) Evaluation of various pharmacological activities of isolated constituent

8) Formulation Development of the active extracts/constituents